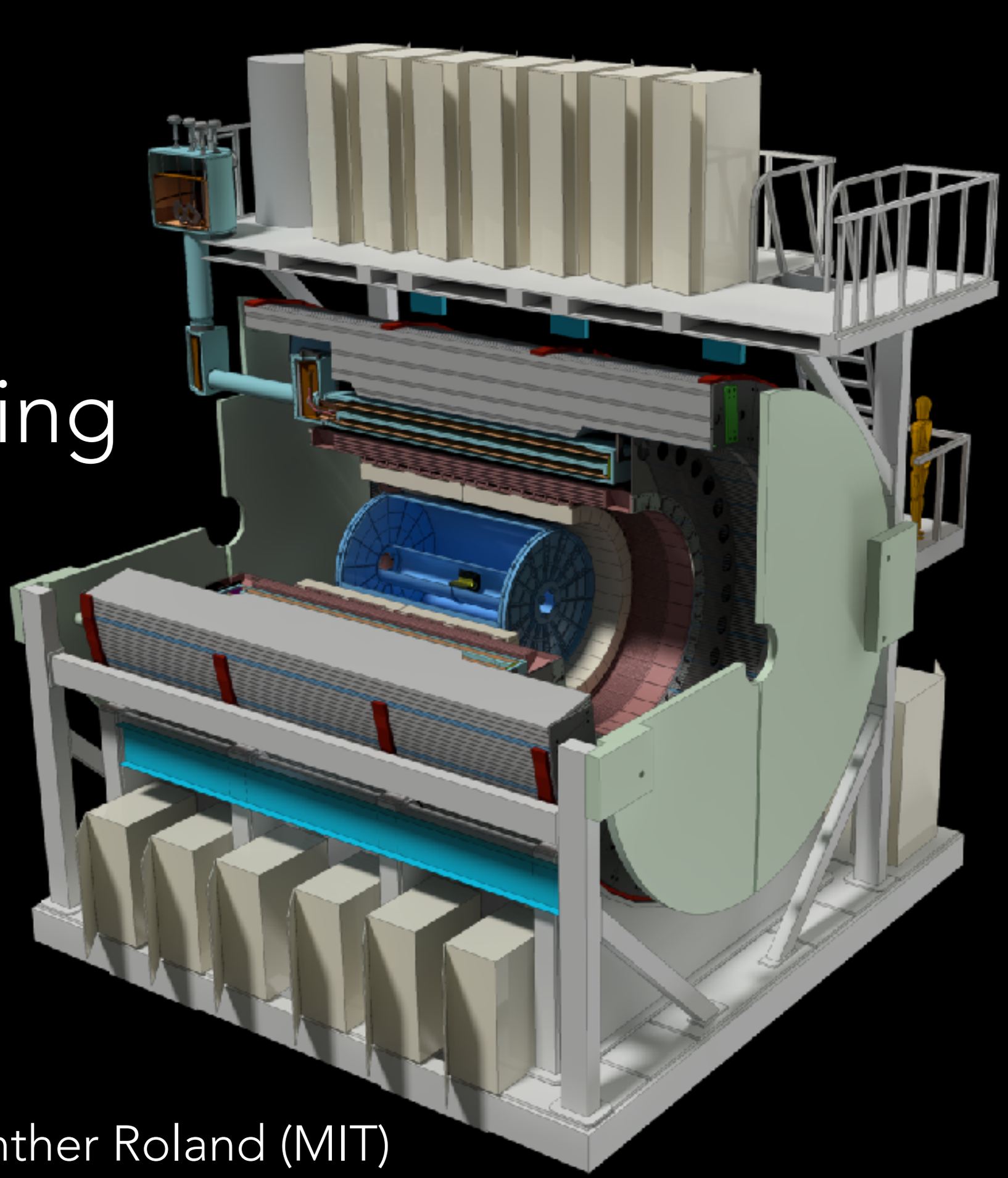
# sPHENIX general meeting Feb 17, 2017



Dave Morrison (BNL), Gunther Roland (MIT)


KEEP
CALM
AND
VOLUNTEER
(to take minutes for today's meeting)

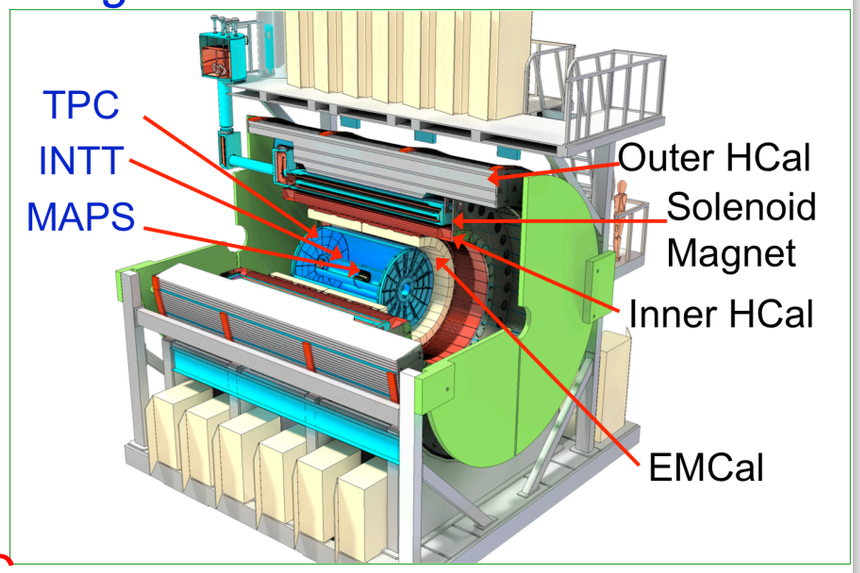
# Quark Matter 2017!

On first day, Tim Hallman opened his talk by saying US DOE "is committed to building sPHENIX". This was nicely echoed on the final day by Bill Zajc.

## Also On The First Day



- Dr. T. Hallman stated U.S. DOE Nuclear Physics "*is committed to building* sPHENIX"
- sPHENIX provides full jet and HF capability in order to:
  - Probe the sQGP with the highest resolution possible at RHIC
  - Perform vital comparisons to same probes at LHC

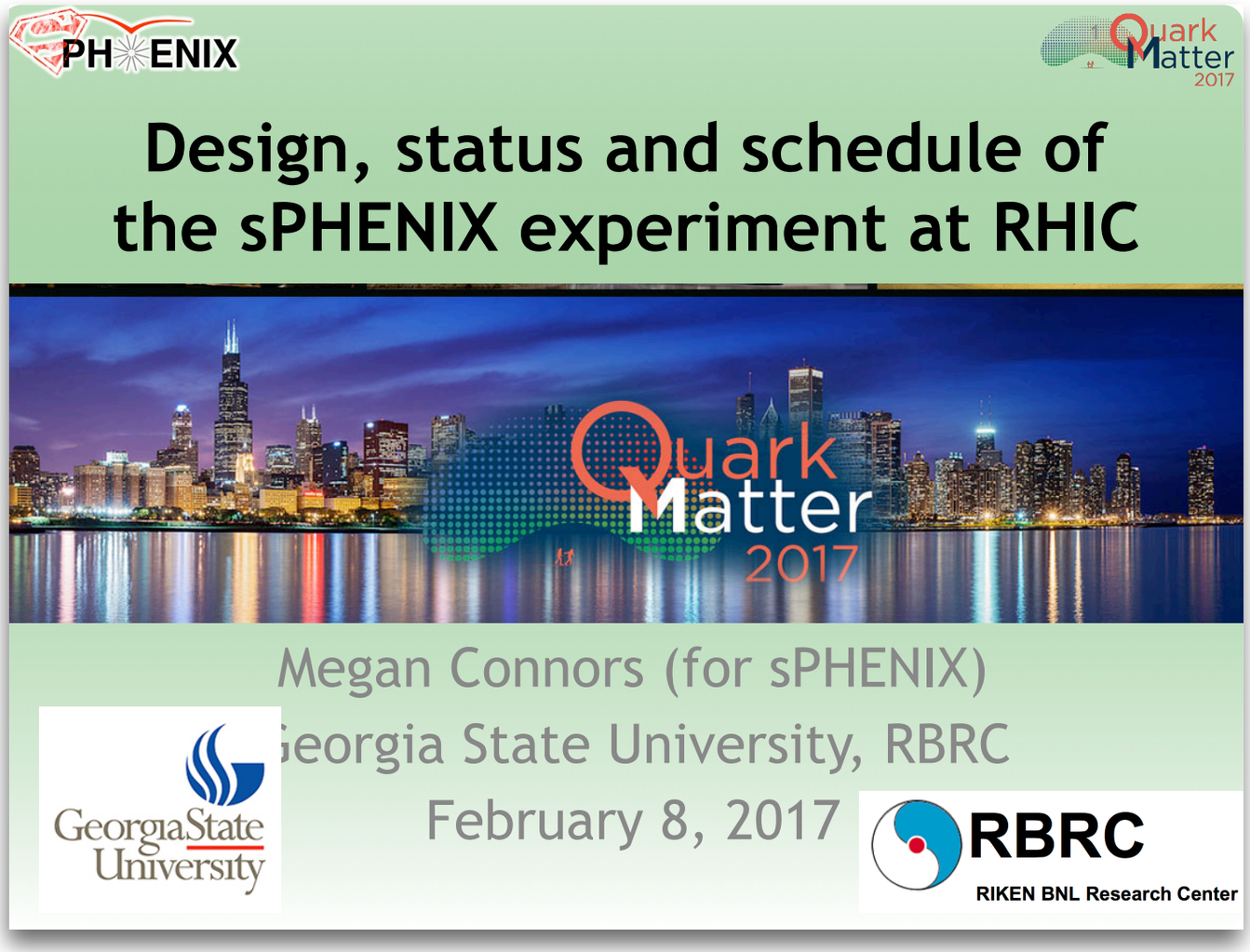



M. Connors: Design, status and schedule of the sPHENIX experiment at RHIC

400 students and postdocs on "student day" – really excellent!

Many exciting new results across the whole field. Vibrant discussions, abundant new data that challenges (in some cases) & supports (in others) prevailing explanations – a healthy sign for our future plans.

Excellent talk by Megan Connors (RBRC/GSU)!




(who battled a cold to speak on behalf of the Collaboration)

And 18 excellent posters in a well trafficked poster session

A big thanks to all – whether you showed a poster, spoke about sPHENIX in your talk, prepared material or helped others get their poster or talk into proper shape.  A very good inaugural QM for sPHENIX!

- sPHENIX Tracking Performance Simulations, Veronica Canoa (SBU)
http://indico.cern.ch/event/433345/contributions/2358221/

- sPHENIX TPC mechanical design, Klaus Dehmelt (SBU)
http://indico.cern.ch/event/433345/contributions/2358224/

- R&D Studies for the sPHENIX Time Projection Chamber, Prakhar Garg (SBU)
http://indico.cern.ch/event/433345/contributions/2358223/

- Design of the sPHENIX tracker, Sourav Tarafdar (VU)
http://indico.cern.ch/event/433345/contributions/2358220/

- Front End Readout for the sPHENIX Time projection chamber, Takao Sakaguchi (BNL)
http://indico.cern.ch/event/433345/contributions/2358230/

- Test Beam Performance of the sPHENIX EMCal Prototype, Virginia Bailey (UIUC)
http://indico.cern.ch/event/433345/contributions/2358225/

- A Prototype of the sPHENIX Hadronic Calorimeter, Abhisek Sen (ISU)
http://indico.cern.ch/event/433345/contributions/2358227/

- Construction and testing of the sPHENIX hadronic calorimeter prototype, Jamie Nagle (Colorado)
http://indico.cern.ch/event/433345/contributions/2358226/

- Design and test-beam performance of the sPHENIX calorimeter system, Jin Huang (BNL)
http://indico.cern.ch/event/433345/contributions/2374660/

- A Common Readout System for the sPHENIX Electromagnetic and Hadronic Calorimeters, Eric Mannel (BNL)
http://indico.cern.ch/event/433345/contributions/2358229/

- The Readout and Data Acquisition Design of the sPHENIX Detector at RHIC, Martin Purschke (BNL)
http://indico.cern.ch/event/433345/contributions/2358228/

- R&D for the sPHENIX MAPS inner tracker, Ming Liu (LANL)

- Identification of heavy-flavor jets in sPHENIX using MAPS, Cesar da Silva (LANL)
http://indico.cern.ch/event/433345/contributions/2358217/

- The intermediate tracking system of the sPHENIX detector at RHIC, Gaku Mitsuka (RBRC)
http://indico.cern.ch/event/433345/contributions/2374661/

- Studying Proton Structure, the Partonic Structure of Nuclei, and Hadronization at sPHENIX, Chong Kim (UCR)
http://indico.cern.ch/event/433345/contributions/2358231/

- Modification of Upsilon production in nuclear collisions measured with sPHENIX, Krista Smith (FSU)
http://indico.cern.ch/event/433345/contributions/2358218/

- Jet spectra and jet structure measurements with sPHENIX, Rosi Reed (Lehigh)
http://indico.cern.ch/event/433345/contributions/2358219/

- B-Jet Tagging Algorithms for sPHENIX at RHIC, Haiwang Yu (NMSU)
http://indico.cern.ch/event/433345/contributions/2358232/

# Discussions with the ALD

- Gunther and Dave met with ALD Berndt Mueller at QM'17 – began by commenting on the simple, positive clarity of Tim Hallman's opening day statement

- Discussed MAPS pre-proposal (see next slide)

- Discussed strategy behind proposal to build full MAPS in relationship to baseline sPHENIX (i.e., detector funded through BNL). Right now, baseline includes a 10-stave "telescope" with a need to show some physics capability. It's possible this is evolving.

- Received a preliminary charge from ALD related to MAPS – will iterate with project and ALD before relaying to Collaboration

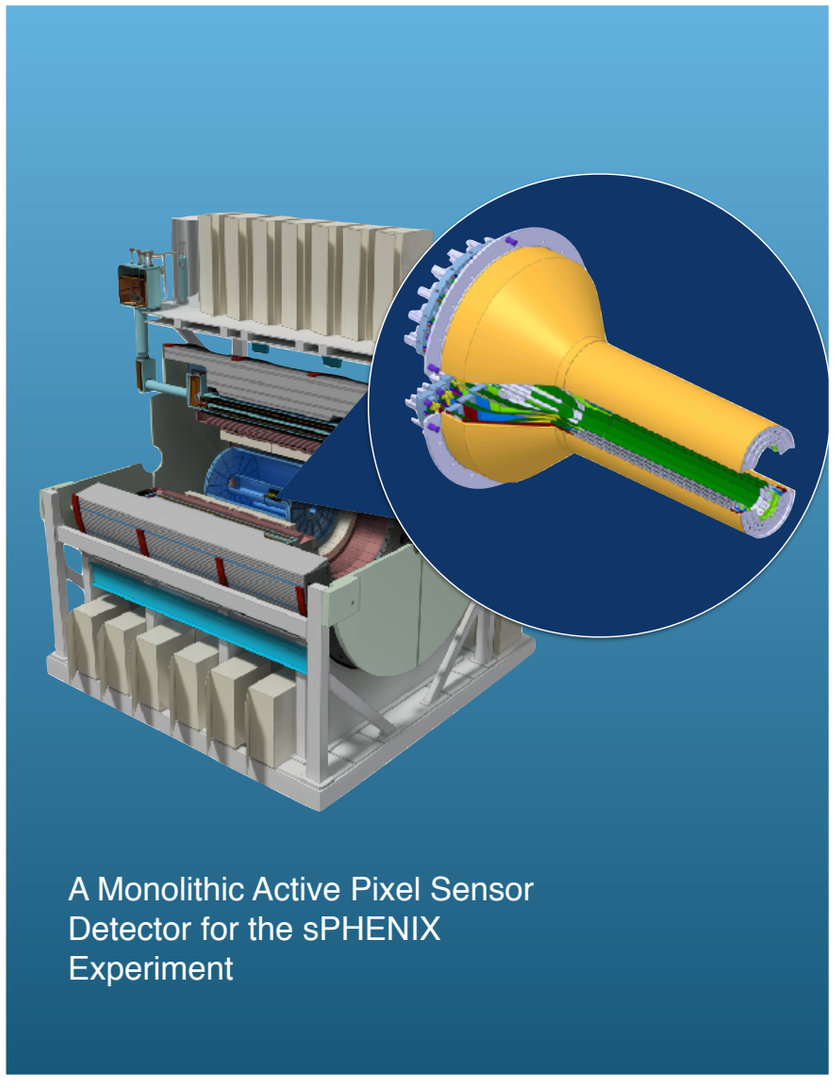
# MAPS pre-proposal

Document finalized following LBNL workfest

Sent to DOE ONP directly by Ming Liu, following our understanding of guidance from ALD Berndt Mueller

DOE instead indicated that this should be officially transmitted by BNL – and this has now happened

We think there will be a BNL review of the pre-proposal in ~March



# Potential new collaborating institutions

- MAPS tracker project is attracting notice

- Wei Xie (Purdue Univ.) has applied to have Purdue Univ. join sPHENIX.  Strong physics, excellent laboratory facilities.

- Expressions of possible interest from Central China Normal University (CCNU) and Peking Univ.

- sPHENIX Czech groups (Charles University, Czech Technical University) joining effort

# Schedules! Schedules! Schedules!

- Schedules help us keep sPHENIX running like a “finely tuned machine”!

- Scheduling an EC meeting – many items to discuss.  EC doodle poll has four responses so far.  If you’re on the EC, please check your email for the link and vote on a time!

- Will schedule an IB meeting to vote on new institutions – some more discussions with interested institutions first

- A doodle poll to set the date for the next sPHENIX collaboration meeting will be coming soon!

Big thanks to all the collaborators helping with FNAL test beam!

In addition to running shifts at FNAL, many people drove up to Chicago for Megan’s talk!